



S/N 10/789,044

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Kie Y. Ahn et al.	Examiner:	Douglas M. Menz
Serial No.:	10/789,044	Group Art Unit:	2891
Filed:	February 27, 2004	Docket:	1303.070US2
Title:	LANTHANIDE DOPED TiO _x DIELECTRIC FILMS		

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully request that this Supplemental Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicants request that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

Pursuant to 37 C.F.R. §1.97(c)(2), Applicants have included the fee of \$180.00 as set forth in 37 C.F.R. §1.17(p). Please charge any additional fees or credit any overpayment to Deposit Account No. 19-0743.

08/18/2005 CNGUYEN2 00000053 190743 10789044

01 FC:1806 180.00 DA

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Serial No :10/789,044

Filing Date: February 27, 2004

Title: LANTHANIDE DOPED TiO_x DIELECTRIC FILMS

Page 2

Dkt: 1303.070US2

The Examiner is invited to contact the Applicants' Representative at the below-listed telephone number if there are any questions regarding this communication.

Pursuant to 37 C.F.R. 1.98(a)(2), Applicant believes that copies of cited U.S. Patents and Published Applications are no longer required to be provided to the Office. Notification of this change was provided in the United States Patent and Trademark Office OG Notices dated October 12, 2004. Thus, Applicant has not included copies of any US Patents or Published Applications cited with this submission. Should the Office require copies to be provided, Applicant respectfully requests that notice of such requirement be directed to Applicant's below-signed representative. Applicant acknowledges the requirement to submit copies of foreign patent documents and non-patent literature in accordance with 37 C.F.R. 1.98(a)(2).

Respectfully submitted,

KIE Y. AHN ET AL.

By their Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
P.O. Box 2938
Minneapolis, MN 55402
(612) 371-2157

Date 16 August 2005 By David R. Cochran
David R. Cochran
Reg. No. 46,632

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 16 day of August, 2005.

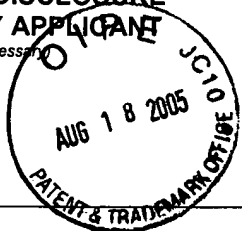
Name KACIA LEE

Signature Kacia Lee

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)



Complete if Known

Application Number	10/789,044
Filing Date	February 27, 2004
First Named Inventor	Ahn, Kie
Group Art Unit	2891
Examiner Name	Menz, Douglas

Sheet 1 of 2

Attorney Docket No: 1303.070US2

US PATENT DOCUMENTS

Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Filing Date If Appropriate
	US-2003/0043637-A1	03/06/2003	Forbes, Leonard , et al.	08/30/2001
	US-2004/0159863-A1	08/19/2004	Eldridge, Jerome M., et al.	02/18/2004
	US-2005/0023574-A1	02/03/2005	Forbes, L. , et al.	09/02/2004
	US-2005/0023595-A1	02/03/2005	Forbes, L. , et al.	08/31/2004
	US-2005/0023602-A1	02/03/2005	Forbes, L. , et al.	08/30/2004
	US-2005/0023603-A1	02/03/2005	Eldridge, J. M., et al.	08/30/2004
	US-2005/0026349-A1	02/03/2005	Forbes, L. , et al.	09/01/2004
	US-2005/0030825-A1	02/10/2005	Ahn, K. Y.	08/31/2004
	US-2005/0032342-A1	02/10/2005	Forbes, L. , et al.	08/30/2004
	US-2005/0077519-A1	04/14/2005	Ahn, Kie , et al.	10/10/2003
	US-2005/0124174-A1	06/09/2005	Ahn, K. Y., et al.	01/07/2005
	US-2005/0138262-A1	06/23/2005	Forbes, Leonard	12/18/2003
	US-2005/0145957-A1	07/07/2005	Ahn, K. Y., et al.	02/16/2005
	US-2005/0158973-A1	07/21/2005	Ahn, K. Y., et al.	01/14/2005
	US-2005/0164521-A1	07/28/2005	Ahn, Kie Y., et al.	03/21/2005
	US-5,562,952	10/08/1996	Nakahigashi, Takahiro , et al.	04/04/1995
	US-5,674,563	10/07/1997	Tarui, Yasuo , et al.	09/14/1994
	US-5,827,571	10/27/1998	Lee, Seaung S., et al.	09/17/1997
	US-6,025,225	02/15/2000	Forbes, Leonard , et al.	01/22/1998
	US-6,454,912	09/24/2002	Ahn, Kie Y., et al.	03/15/2001
	US-6,509,280	01/21/2003	Choi, Sung-Je	02/13/2002
	US-6,541,079	04/01/2003	Bojarczuk, Jr., N. A., et al.	10/25/1999
	US-6,778,441	08/17/2004	Forbes, L. , et al.	08/30/2001
	US-6,787,370	09/07/2004	Forbes, Leonard	12/16/2002
	US-6,858,120	02/22/2005	Ahn, Kie , et al.	08/09/2002
	US-6,858,444	02/22/2005	Ahn, K. Y., et al.	06/20/2003
	US-6,884,739	04/26/2005	Ahn, K. Y., et al.	08/15/2002
	US-6,893,984	05/17/2005	Ahn, K. Y., et al.	02/20/2002
	US-6,900,122	05/31/2005	Ahn, K. Y., et al.	12/20/2001
	US-6,914,800	07/05/2005	Ahn, K. Y., et al.	08/31/2004
	US-6,921,702	07/26/2005	Ahn, K. Y., et al.	07/30/2002
	US-6,930,346	08/16/2005	Ahn, K. Y., et al.	08/31/2004

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	T ²
--------------------	---------------------	------------------	---	----------------

EXAMINER

DATE CONSIDERED

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/789,044
Filing Date	February 27, 2004
First Named Inventor	Ahn, Kie
Group Art Unit	2891
Examiner Name	Menz, Douglas

Sheet 2 of 2

Attorney Docket No: 1303.070US2

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		AHN, KIE Y., et al., "ALD OF AMORPHOUS LANTHANIDE DOPED TIOX FILMS", U.S. Application Serial No. 11/092,072; filed March 29, 2005	
		AHN, KIE Y., et al., "ATOMIC LAYER DEPOSITED HAFNIUM TANTALUM OXIDE DIELECTRICS", U.S. Application Serial No. 11/029,757; filed January 5, 2005	
		AHN, KIE Y., et al., "ATOMIC LAYER DEPOSITED LANTHANUM ALUMINUM OXIDE DIELECTRIC LAYER", U.S. Application Serial No. 10/930,167; filed August 31, 2004	
		AHN, KIE Y., et al., "ATOMIC LAYER DEPOSITED LANTHANUM HAFNIUM OXIDE DIELECTRICS", U.S. Application Serial No. 11/010,529; filed December 13, 2004	
		AHN, KIE Y., et al., "ATOMIC LAYER DEPOSITED TITANIUM ALUMINUM OXIDE FILMS", U.S. Application Serial No. 10/931,533; filed August 31, 2004	
		AHN, KIE Y., et al., "ATOMIC LAYER DEPOSITION OF Hf3N4/HfO2 FILMS AS GATE DIELECTRICS", U.S. Application Serial No. 11/063,717; filed February 23, 2005	
		AHN, KIE Y., et al., "ATOMIC LAYER DEPOSITION OF ZIRCONIUM-DOPED TANTALUM OXIDE FILMS", U.S. Application Serial No. 10/909,959; filed August 2, 2004	
		AHN, KIE Y., et al., "ATOMIC LAYER DEPOSITION OF Zr3N4/ZrO2 FILMS AS GATE DIELECTRICS", U.S. Application Serial No. 11/058,563; filed February 15, 2005	
		AHN, KIE Y., et al., "HYBRID ALD-CVD OF PrXOY/ZrO2 FILMS AS GATE DIELECTRICS", U.S. Application Serial No. 11/010,766; filed December 13, 2004	
		AHN, KIE Y., et al., "RUTHENIUM GATE FOR A LANTHANIDE OXIDE DIELECTRIC LAYER", U.S. Application Serial No. 10/926,812; filed August 26, 2004	

EXAMINER**DATE CONSIDERED**

Substitute Disclosure Statement Form (PTO-1449)

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional) ² Applicant is to place a check mark here if English language Translation is attached